

Biju K, Ph.D.

Assistant Professor

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[Biju K - Google Scholar](#)

ICT Skills & Competencies

- Expertise designing courses and online platforms like EDMODO, Canvas, and MOODLE LMS.
- Expertise in OBE, Instructional Design, OER and Creative Commons.
- Expertise in using Adobe Connect for SLT mode of teaching-learning.
- Expertise in using Videoconferencing tools for webinars.
- Master trainer for Microsoft's Technology Enriched Instruction (TEI).
- Master Trainer for INTEL Easy Steps.
- Handled INTEL's 21 Century Education Programmes.
- Expertise in Blog creation, web page creation, audio script writing, video script writing, e-content development, online course development and management.
- Member of online communities of critical thinking, e-learning, the association for physics teachers, and teachers' forums.

Research Profile

- Supervising Ph.D in Education.
- Mastered Research Methodology- research designs.
- Mastered SPSS package for statistical analysis.
- Well-versed in tool preparation and standardisation.
- Well-versed in using psychological tools.
- Studied the topics in environmental education at the PhD level, the Environmental Responsible Behavior (ERB) and environmental knowledge were studied using an experience-based approach towards environmental education at secondary teacher education. The investigator prepared the tools and modules for the study.
- Studied the topics on the effectiveness of computer-aided learning at the school students' level as a part of the RIE-NIIT Collaborative project.
- Abreast with the recent trends and development in educational research.
- Developed achievement tests and standardised them for research.

Membership in Professional Bodies

- Life Membership- Indian Association of Physics Teachers- No 13282 L8327

- Professional Membership- Institute of Scholars-InSc 2023F682
- Member-EdTech Society - <https://etsociety.org/>

Professional Experiences

10th June 2016-

Central University of Tamil Nadu, Thiruvarur, Tamil Nadu

- Assistant Professor, Department of Education in the School of Education and Training as Assistant Professor in Education.

June 2015-May 2016

Regional Institute of Education (NCERT), Mysore

- Worked as Assistant Professor in Teaching Methods of Physics on Ad hoc Basis.
- Handled classes on Teaching Methods of Physics for B.Sc.Ed VI Semester, MSc.Ed VI, IX and X Semesters.
- Handled classes on Research Methodology for XI Semester MSc.Ed students.
- Handled workshop classes on Communication for I-semester M.Ed. students.

March 2015- June 2015

Training Manager, SMART Technologies India Promotional & Marketing Service Pvt. Ltd.

- Conducting training for various users of SMART products.
- Designing and developing training modules for school teachers in pedagogy integration with SMART Notebook Software.

2013- 2015

Assistant Manager, Product Development & Alliances, NIIT Ltd.

- Developed content and training modules for teacher training and Central Teacher Eligibility Test (CTET) courses etc.

- Developed Course materials for CTET online courses and handled SLT sessions.
- Conducted Teacher Training in Central Board of Secondary Education (CBSE) modules like Continuous and Comprehensive Evaluation (CCE), Life Skills, Co-scholastic aspects; Leadership training for Principals and School Quality Assessment and Accreditation (SQAA) Training for Educational stakeholders.
- Conducted INTEL e-basic courses at various Government Colleges of Tamil Nadu under the Tamil Nadu Higher Education Council project.
- Conducted INTEL easy Steps training for various target groups.
- Conducted Microsoft Technology Enriched Instruction Workshops for Higher Education faculties.

2012-2013

Group Leader Customer Service Delivery, NIIT Ltd.

- Conducted customer engagement programmes like “Mathemagicain”, ‘i-Paint’, “i-Teach”.
- Conducted training on various products like Interactive Classrooms, and Mathematics Laboratory for teachers and students.

2011-2012

Consultant Education Solutions, NIIT Ltd.

- Conducted demonstrations on Interactive Classroom Solutions, Mathematics Laboratory, and Mobile Science Station.

2008-2011

Researcher, RIE-NIIT Collaborative Project, NIIT Ltd.

- Designed and implemented research on Interactive Class Room solutions, Mathematics Laboratory as a researcher in a retainer role.

2004-2008

Assistant Professor in Education, NSS Training College, Ottapalam, Palakkad, Kerala.

- Handled theory and practical classes in Science Education, Education Technology, ICT for B.Ed students.

- Handled classes on Research methodology, Educational Philosophy for M.Ed students.
- Participated in Calicut University Paper Valuation camps.
- Handled charges of discipline, literary & cultural activities.

2001-2002

Higher Secondary Teacher (Physics)

- Handled theory and practical classes for XI, XII Physics.

Academic Profile

2014

PhD, *University of Mysore*

Awarded PhD degree from Regional Institute of Education (NCERT), Mysore, under Mysore University in Education, in an area; Experience-based approach in Environmental education at the secondary teacher education level.

2004

M.Ed., *Regional Institute of Education (NCERT), Mysore*

Merited First class with 76% from Regional Institute of Education (NCERT), Mysore, under Mysore University, specialising in Elementary Education, Science Education and ICT.

2003

B.Ed., *Ramakrishna Institute of Moral and Spiritual Education, Mysore*

Merited First Rank with 83.66% from Ramakrishna Institute of Moral & Spiritual Education, Mysore, under Mysore University with a specialisation in Moral and Spiritual Education.

2001

M.Sc (PHYSICS), *Mangalore University*

Merited First Merited first class with 64.7% from Mangalore University, specialized in Solid State Physics.

1998

B.Sc (PHYSICS), *Calicut University*

Merited first class with 75.7% from Nehru Arts and Science College, Kanhangad, under

Calicut University, with Physics main and Mathematics and Chemistry as subsidiaries.

1995

Pre-Degree, Calicut University

Merited first class with 71.88% from Payyanur College, Payyanur, under Calicut University subjects Physics, Chemistry and Biology.

1993

SSLC, Board of Public Examination, Kerala

Merited Distinction with 84.3% from A.V.S.G.H.S.S, Karivellur.

Additional Qualifications

2016

Online Course on Action Research in Education

Completed a two-credit online course on action research in education organised by the Department of Educational Research and Central Institute of Educational Technology, NCERT, New Delhi, from January-March 2016.

2005

National Eligibility Test

Qualified UGC-NET Examination for eligibility for Lectureship held on 26th June 2005 in Education. Certificate No: A 036537, UGC Ref no: 2169/NET June 2005.

2004

State Eligibility Test

Qualified the State Eligibility Test (SET) in Physics, conducted by the Directorate of Higher Secondary Education, Govt. of Kerala on March 2004; certificate No:0472.

Achievements

- Merited with Rashtrapathy Scout Award given by the Indian President in 1994.
- Merited with Goodwin Scholarship from RIMSE, Mysore, for English Essay Writing on “Vivekananda on Women”.
- Awarded as the Best All-round Performer from RIMSE, Mysore in 2003.

- Merited with NCERT Merit Scholarship in the year 2003-2004.

Projects Undertaken

- Undertaken the study of “Effect of inculcation of certain personal and social values through Direct and Integrated approach on Children of upper Primary level” for the requirement of the partial fulfilment of the degree of Master of Education during 2003-2004.
- Worked as a Field Supervisor in the project on “Evaluation of Block Resource Centres and Cluster Resource Centres in the districts of Kerala State” under IIM Bangalore funded by MHRD, Govt. of India from November 2007 to February 2008.

Publications

- K., Biju (2010). Value Clarification-A Tool for Empowering Youth to Act for a Sustainable Existence. In G. Viswanathan (Ed.), Education for Mitigation of Human Conflicts- UGC SAP Sponsored International Conference (pp. 407-409). Annamalai Nagar: Department of Education.
- K., Biju & P., Rao Manjula (2012). Experiential Learning Approach for Environmental Education as the Best Line of Counter Attack towards Burning Environmental Issues. In S. Sabu (Ed.), Education at the Crossroads (Vol.1, pp. 147-151). New Delhi: APH Publishing Corporation. ISSN No.2320-0316
- K., Biju. (2017). Integrating PhET Tools in Constructivist Physics Teaching Learning. i-manager’s Journal of Educational Technology. 13. 50. 10.26634/jet.13.4.12403.
- Rajasekharagoud Rachala & K., Biju. (2022). Appraisal of Physical Environment of Inclusive Schools for Children with Hearing Impairment in Hyderabad. Journal of Emerging Technologies and Innovative Research (JETIR). ISSN: 2349-5162. E63-e69.
- Rajasekharagoud Rachala & K., Biju. (2022). MOOCs: Enhancing Access to Education for All in Dhanavandan s (ed). Innovative Librarianship: Impetus to Digital Convergence. Today & Tomorrow’s Printers and Publishers, New Delhi. Pp 237-244. ISBN:9789391734053
- K., Biju. (2022). Literacies in New Normal. Techno-Pedagogic Experiments and Modalities for Better Classrooms. Sameer Babu M (ed). Archers & Elevators Publishing House, Bangalore. ISBN 978-93-94958-67-8

- Rajasekharagoud Rachala & K., Biju. (2023). Exploring the Possibilities of Artificial Intelligence in the Education of Children with Disabilities. Journal of the Asiatic Society of Mumbai. ISSN: 0972-0766, Vol. XCVI, No.25
- B., Madhu & K., Biju. (2023). Mathematics Education in India through Policy Documents. Journal of Indian Education, National Council of Education Research and Training, New Delhi. Vol.48, Issue No.4

Workshops/Seminars/Training

2023

- Contributed as a Resource Person in the Online Training on 'Learning Management System (LMS) to enhance Teaching-Learning Process' conducted by the Central Institute of Educational Technology (NCERT), New Delhi and handled a session on 'LMS: Policy Perspectives, Concepts, Need & Scope' on 23rd January 2023.
- Contributed as a Resource Person in the Online Training on 'Learning Management System (LMS) to enhance Teaching-Learning Process' conducted by the Central Institute of Educational Technology (NCERT), New Delhi and handled a session on 'Introduction to MOODLE: Interface, Account Creation & Course Registration' on 24th January 2023.
- ***Organized Two Day National Seminar on 'Prospects for Actualizing Sustainable Educational Goals (PASEG)' at the Department of Education, Central University of Tamil Nadu, On 27-28 January 2023.***
- Participated as a Resource Person in the Training Programme on Content-cum-Pedagogy through activity/Technology based Teaching Learning for Secondary and Senior Secondary School Teachers in Mathematics for Telangana State organised by Regional Institute of Education (NCERT), Mysuru, on 4th February 2023.
- Participated as a Resource Person in the Faculty Induction Programme organised by the UGC-Human Resource Development Centre, University of Hyderabad, and delivered a lecture on 'Multiple Learning Styles' on 4th February 2023.
- Participated as a Resource Person in the Training Programme on LMS organised by UGC-STRIDE Project, Sree Sankaracharya University of Sanskrit, Kalady, Kerala, during 8-9 February 2023.

- Participated as a Resource Person in the Faculty Induction Programme organised by UGC-Human Resource Development Centre, Kannur University and handled a session on 'Open Educational Resources and Creative Commons' on 18th February 2023.
- Participated as a Resource Person in the Developing Training Package on 'Development of Online Courses' workshop organised by Central Institute of Educational Technology (NCERT), New Delhi, during 20-22 February 2023.
- Participated as a Resource Person in the Review of Online Courses "ICT Basics" workshop organised by Central Institute of Educational Technology (NCERT), New Delhi, from 23-24 February 2023.
- Participated as a Resource Person for the Two-Day National Seminar on 'Science and Technology for Sustainable Future', organised by P K M College of Education, Madampam, Kerala, in association with St. Joseph's College of Education, Mysore, co-sponsored by Kerala State Council for Science, Technology and Environment, Government of Kerala and delivered a lecture on 'Technology Enabled Education for Sustainable Future' on 25th February 2023.
- Participated as a Resource Person in the UGC Sponsored 6th Refresher Course in Teacher Education through online mode organised by the UGC-Human Resource Development Centre, University of Mysore and handled the session on 'Realigning Teacher Education as per NEP-2020' and 'Outcome Based Education in Teacher Education' on 3rd March 2023.
- Acted as a Panel Expert in the technical session Designing ITEP Curriculum and participated in the National Conclave on Curriculum Design for Integrated Teacher Education Programme (ITEP) organised by the Department of Education, Central University of Kerala, during 23-24 March 2023.

2022

- Technology Integration in Higher Education, HRDC, University of Calicut, 14-January 2022.
- OER and Creative Commons, HRDC, University of Calicut 15-January 2022.
- Handled session in Teaching Learning through LMS, CIET-NCERT Online Training Program from 24-28 January 2022.

- Handled a session on Continuous and Comprehensive Evaluation, Online Two Week FDP Refresher Course in Education, Teaching Learning Centre, Ramanujan College, University of Delhi in collaboration with Tilak College of Education, Pune and Department of Education, Ashutosh Mukhopadhyay School of Education Science, Assam University, Silchar, 28-January-2022.
- Handled a session on Technology Integration in Higher Education, UGC-HRDC, Dr.Babasaheb Ambedkar Marathwada Univeristy, Aurangabad 1-February-2022.
- Development of Online Course on ICT Basics, Workshop conducted by CIET-NCERT, 18-February-2022.
- Handled sessions in Research Paradigms and Statistical Analysis for Educational Research, School of Pedagogical Science, Kannur University, 23-25-February-2022.
- Participated in the International Webinar on Development of and Instructional Tool through Design based Research organized by Centre for Research Methods, Dr. B R Ambedkar University, Delhi, 29-March-2022.
- Presented a Paper Titled “Media Literacy and Self-Reliance among Students of Integrated Teacher Education” in the ICSSR-Sponsored Two-day National Seminar “Atmanirbhar Bharat and Media: On the Roads to Success” organised by the Department of Media & Communication, Central University of Tamil Nadu during 28-29 April 2022.
- Participated as a Resource Person in a 5-day Training Programme titled Professional Development Programme for Teachers of ISRO school-Srihari Kotta, organised by Regional Institute of Education (NCERT), Mysuru, on 26th May 2022.
- Participated in the National Conference on Innovative Librarianship: Accelerating of Open Digital Convergence organised by the Central Library, University of Tamil Nadu, sponsored by RRRLF, Kolkata, held on 9th and 10th June 2022.
- Participated in the Workshop on Development of Online Courses on ICT organised by the Central Institute of Educational Technology (NCERT), New Delhi, during 25-29 July 2022.
- Participated as an expert in the workshop for Ideation workshop on Kerala School Education Congress organised by State Council for Educational Research and Training (SCERT), Kerala, on 18th July 2022.

- Contributed as a Resource Person in the Online Training on 'Multi-media Resources for Teaching Learning and Assessment' conducted by the Central Institute of Educational Technology (NCERT), New Delhi and handled a session on 'Multi-media Resources for Education: Types and Exemplars' on 23rd August 2022.
- Participated as a Resource Person in a Three-Day Workshop to Develop the Implementation Guidelines for the Teacher Education Programme at Multidisciplinary Institutions organised by the Department of Teacher Education, NIE, NCERT, New Delhi, during 28-30 September 2022.
- Participated as a Resource Person in Two-Day National Seminar on Reforms in Higher Education: Post NEP-2020; Challenges and Opportunities, conducted by IQAC in Collaboration with UGC-HRDC, University of Kerala, Thiruvananthapuram on 14-15 October 2022.
- Participated as a Resource Person in the Faculty Induction Programme organised by UGC-Human Resource Development Centre, Kannur University and handled a session on 'Open Educational Resources and Creative Commons' on 25th October 2022.
- Participated as a Resource Person in the UGC-sponsored 11th Faculty Induction Program organised by UGC-Human Resource Development Centre-University of Calicut and handled a session on Understanding the Online Learning Management System on 17th November 2022.
- ***Organized a three-day workshop on Research Methodology at the Department of Education, Central University of Tamil Nadu, from 10-12 November 2022.***
- Attended a One Day workshop concerning module modification of CPFSL (Certificate Programme in Functioning School Leadership) organised by the State Institute for Educational Management and Training (SIEMAT), Kerala, on 21st October 2022.
- Participated as a Resource Person in the Faculty Induction Programme organised by UGC-Human Resource Development Centre, Kannur University and handled a session on 'Open Educational Resources and Creative Commons' on 26th October 2022.
- Participated as a Resource Person in the Faculty Induction Programme organised by UGC-Human Resource Development Centre, University of Hyderabad and delivered a lecture on 'Multiple Learning Styles' on 5th November 2022.

- Participated as a Resource Person in the UGC-sponsored 11th Faculty Induction Program organised by UGC-Human Resource Development Centre- the University of Calicut and handled a session on Developing Effective PowerPoint Presentations for MOOC Recording on 18th November 2022.
- Participated as a Resource Person in the Inter/Multi-Disciplinary Refresher Course: Teacher Education: Learning Outcome and Educational Reform-Pedagogy, Assessment and Quality Assurance and handled a session on 'Multiple Learning Styles' on 22nd November 2022.
- Delivered a lecture on Technology Enabled Designs for Learning in the One Week National Level Faculty Development Programme on National Education Policy and Curriculum Design organised by CCRPED under PMMMNMTT, School of Education, Central University of Kerala in collaboration with Christ College, Irinjalakkuda, Kerala on 25th November 2022.
- Participated as a Resource Person in a 5-day workshop under PAC titled 'Development of a Compendium of some Innovative Teaching and Learning Practices in Science at the Secondary School Level of the Southern States, organised by the Regional Institute of Education (NCERT), Mysuru, during 29th November to 2nd December 2022.
- Delivered invited Lecture in the National Seminar on National Education Policy-2020 organised by IQAC, Sir Syed College, Taliparamba, Kerala on 3rd December 2022.
- Participated as a Resource Person in the Faculty Induction Programme organised by UGC-Human Resource Development Centre, Kannur University and handled a session on 'Open Educational Resources and Creative Commons' on 14th December 2022.
- Participated as a Resource Person in the Faculty Induction Programme organised by UGC-Human Resource Development Centre, Kannur University, and handled a session on 'Open Educational Resources and Creative Commons' on 15th December 2022.

2021

- “Technology Enabled Higher Education” in the Faculty Induction Program organised by UGC-HRDC, Kannur University on 01-01-2021.

- “Open Educational Resources and Creative Commons” in the Faculty Induction Program organised by UGC-HRDC, Kannur University on 02-01-2021.
- “Technology Enabled Higher Education” in the Online Faculty Development program on Technology Integration in Higher Education organised by MHRD-TLC Calicut on 05-01-2021.
- “Open Educational Resources” in the Online Faculty Development program on Technology Integration in Higher Education organised by MHRD-TLC Calicut on 07-01-2021.
- “Technology Enabled Higher Education” in the faculty induction program organised by UGC-HRDC, University of Calicut on 08-01-201.
- “Open Educational Resources and Creative Commons” in the faculty induction program organised by UGC-HRDC, University of Calicut on 09-01-201.
- “Open Educational Resources and Creative Commons” in the Refresher Course on Teacher Education organised by UGC-HRDC Ranchi University on 14-01-2021.
- “Open Educational Resources and Creative Commons” in the Faculty Induction Program organised by UGC-HRDC University of Kerala on 21-01-2021.
- “ICT for Assessment” in the Training Mathematics and Physics Teachers of Tamil Nadu and Pondicherry for Quality Teaching Learning Using different ICT Mediation organised by Regional Institute of Education (NCERT), Mysuru on 21, 22-01-2021.
- “e-content design using FOSS Tools” in the Skill certificate course on Digital Skills for Prospective Teachers Organized by Skill Development Centre BEICH-RUSA 2.0 Bharathiyar University on 23-01-2021.
- “Technology Enabled Higher Education” in the faculty induction program organised by UGC-HRDC Kannur University on 04-02-2021.
- “Open Educational Resources and Creative Commons” in the faculty induction program organised by UGC-HRDC Kannur University on 06-02-2021.
- “Integrating Technology in Higher Education & Authoring and Mapping Tools” in the Refresher course on Curriculum Design, Development and Assessment for faculties in Sciences in Universities and Colleges organised by MHRD-TLC University of Calicut on 06-02-2021.

- Resource Person on the topic “Technology Enabled Higher Education” in the 4th Faculty Induction Program organised by HRDC Dr BMM University Aurangabad on 08-02-2021.
- Resource Person on the topic “Technology Enabled Higher Education” in the Workshop on MOODLE organised by IQAC, Maharajas College, Ernakulam on 09-02-2021.
- Resource Person on the topic “Subject Specific Tools & Techniques” in the Workshop on the development of e-content for the SRGs organised by CIET, NCERT, New Delhi on 24-02-2021.
- Resource Person on the topic “Technology Enabled Higher Education” in the 4th Faculty Induction program organised by UGC-HRDC, University of Calicut on 26-02-2021.
- Resource Person on the topic “Open Educational Resources and Creative Commons” in the 4th Faculty Induction program organised by UGC-HRDC, University of Calicut on 01-03-2021.
- Resource Person on “Technology Integration in Higher Education” in the curriculum design, development and assessment refresher course organized by MHRD-TLC, University of Calicut on 02-03-2021.
- Resource Person on the topic Copyright and Creative Common Licenses” in the One-week Interaction Programme for Ph.D. Research Scholars / Post-Doctoral Fellows organised by UGC-HRDC, University of Calicut on 02-03-2021.
- Resource Person on “Computer-Mediated Simulations” in the Capacity Building Program of CTE Teachers of Karnataka organised by Regional Institute of Education (NCERT), Mysuru on 03-03-2021.
- Resource Person on the topic “Integrating Technology in Education” in the Online Refresher Course on Curriculum Design, Development and Assessment organised by MHRD-TLC, University of Calicut on 03-03-2021.
- Acted as a Resource person on “Open Educational Resources” in the Capacity Building Program of CTE Teachers of Karnataka organised by Regional Institute of Education (NCERT), Mysuru on 04-03-2021.

- Acted as a Resource Person on “Copy Right and Creative Common License” in the Short-Term Course on Soft Skill Development of Assistant and Associate Professor organised by UGC-HRDC, University of Calicut on 24-03-2021.
- Acted as a Resource Person on “Developing Techno pedagogic Practices” in the Refresher course in Education and Teaching Methods organised by UGC-HRDC, University of Kerala on 26-03-2021.
- Acted as a Resource Person on ‘Analysis of Data in Social Sciences through SPSS-Foundation Course’ Faculty Development Centre, Tamil Nadu Teachers Education University, Chennai 27, 28-01-2021.
- **Seven-day International Faculty Development Workshop conducted by the Department of Education, University of Kerala, Trivandrum, in association with School of Pedagogical Sciences, Mahatma Gandhi University, Kottayam from 22-03-2021 to 28-03-2021.**
- Acted as a Resource Person on the Faculty enrichment webinar for Physics Teachers in Higher Education organised by National Resource Centre for Education on 12-03-2021 at NIEPA, New Delhi.
- Online workshop for reviewing manuscripts for the Indian Journal of Educational Technology (IJET) Vol.3 organised by Central Institute of Educational Technology (CIET, NCERT), New Delhi from 16-01-2021 to 25-01-2021.
- EduTech Hands-on Online Workshop organised by Kerala State Higher Education Council 22-25 June 2021.
- Webinar on "Online Education Challenges" organised by the Department of Computer Science, in collaboration with IQAC, Sponsored by Technical Education Quality Improvement Program Phase II (TEQP II), College Of Engineering, Cheemeni, Kasargod (Dt), Kerala on 5-July-2021.
- Acted as a Resource Person on the Development of Alternative Assessment Strategies for Science in Constructivist Classroom At the Elementary level and its impact on the Cognitive and Affective Domain, ERIC (NCERT) project, Punjab Central University on 20 July 2023.
- Acted as a Resource Person on Techno pedagogy and OER, Kerala State Higher Education Council, Online Hands-on Workshop on LMS (MOODLE) on 26 July 2021.

- Acted as a Resource Person on Outcome Based Education, Kerala State Higher Education Council, Online Hands-on Workshop on LMS (MOODLE) on 27-July-2021.
- Acted as a Resource Person on Assessment Methods, Kerala State Higher Education Council, Online Hands on Workshop on LMS (MOODLE) on 30-July-2021.
- Participated in the National Webinar on "Implementation of NEP-2020 in Teacher Education" Organized by Dravidian University, Kuppam, Andhra Pradesh and Council for Teacher Education Foundation, Karnataka Chapter, Bangaluru on 5-August-2021.
- Kerala State higher Education Council Online Workshop-EduTech Hands on Online Workshop 9-13 August 2021.
- Techno pedagogy, 5th Faculty Induction Program, HRDC, Calicut University on 21-August-2021.
- Acted as a Resource Person on OER and Creative Commons, 5th Faculty Induction Program, University of Calicut on 28-August-2021.
- Acted as a Resource Person in the Kerala State Higher Education Council, Online Hands-on Workshop on LMS (MOODLE) 1-6-September-2021.
- Handled sessions in Two Weeks FDP on ICT Enabled Online Teaching Methods, Government Law College, Ernakulum in collaboration with Kerala State Higher Education Council 9-21-September-2021.
- Handled sessions in E-content Development on MOODLE, organised under UGC-STRIDE, Mahatma Gandhi University, Kottayam in association with IQAC, Al Ameen College, Edathala, Aluva, Kerala 13-27 September-2021.
- Acted as a Resource Person on Assessment in Online Education, Faculty Induction Program, HRDC, Kannur University 30-September-2021.
- Acted as a Resource Person on OER and Creative Commons, Faculty Induction Program, Kannur University 4-October-2021.
- Acted as a Resource Person in the Online FDP conducted by SN Poly Technic College on Integration of Outcome Based Education in MOODLE 5-October-2021.
- Acted as a Resource Person on Technology Enabled Higher Education, 6th Faculty Induction Program, HRDC, University of Calicut, 19-October-2021.

- Acted as a Resource Person on OER and Creative Commons, 6th Faculty Induction Program, HRDC, University of Calicut, 20-October-2021.
- Handled a session on "Design Education: The New Future" Integrating Technology in Nursing Education, organised by Al-Shifa College of Nursing, Perinthalmanna, Kerala, on 16 November 2021.
- Acted as a Resource Person on Flipped Learning, CIET-NCERT four days online training program on the topic, "Innovative Pedagogies for Digital Education", pm-e vidya on 23-November-2021.
- Handled session in 7th Faculty Induction Program, HRDC, University of Calicut on 24,25 Nov-2021.
- **Completed AICTE Training and Learning (ATAL) Academy online Elementary FDP on Artificial Intelligence in Teaching and Learning at Central University of Tamil Nadu from 22 to 26 November 2021.**
- Capacity Building in Physics and Chemistry for Higher Secondary School KRPs of Southern Region, organised by RIE(NCERT), Mysuru 16-December-2021.

2020

- Resource Person in a One-day National level Workshop on “The DP-Digital Pedagogy” on a topic-Technology, Integrated Instructional Design and digital content development- organised by Sri Sarada College of Education, Salem, on 01st February 2020.
- Resource person in the National Workshop on Developing e-Content/MOOCs for Teacher Education, organised by the School of Education, MGAHV, Wardha, Maharashtra, on 6th March 2020.
- Resource person in the short-term course in contact/hands-on experience program for ARPIT Learners organised by UGC-HRDC, Kannur University on 9th March 2020.
- Acted as a Resource Person on Creating Concept Map using VUE in the webinar organised by CIET, NCERT New Delhi on 19-05-2020.
- Acted as a Resource Person on “Techno-pedagogy” in the FDP-A short-term course on Techno pedagogical aspect of Global Competency in Higher Education organised by NSS Training Colleges of Ottapalam, Changanacherry and Pandalam from 22-05-2020 to 27-05-2020.

- “A Paradigm Shift in Teaching Learning” in the National Webinar on Opportunities and Challenges in Outcome Based Education organised by KLE Society's Raka Lakhamagouda Science Institute, Belagavi, Karnataka on 08-06-2020.
- “Preparation, Utilization and Uploading e-content” in the Online Faculty Development Program organised by Department of Community Health Nursing, Vinayaka Mission College of Nursing, Karaikkal, on 03-07-2020.
- “Hands-on Training on MOODLE” in the Fifteen days hands-on training programme on MOODLE under LMS organized by IQAC University of Kerala and HRDC Kerala University from 05-08-2020 to 18-08-2020.
- “Technology Integration in Higher Education” in the One week online short run course on E-Content Development and Course Design, MHRD- Teaching Learning Centre, University of Calicut on 08-09-2020.
- “Course Design-Structuring the course” in the One week online short run course on E-Content Development and Course Design, MHRD- Teaching Learning Centre, University of Calicut on 09-09-2020.
- “Identifying and Selecting Course Components” in the One week online short run course on E-Content Development and Course Design, MHRD- Teaching Learning Centre, University of Calicut on 11-09-2020.
- “Design assessment for Online Courses” in the One-week online short-run course on E-Content Development and Course Design, MHRD- Teaching Learning Centre, University of Calicut on 12-09-2020.
- “Teacher Education: Highlights & Challenges” in the Online National Conference “NEP 2020: Towards A Self-Reliant India” organised by SNM Training College in collaboration with Kerala State Higher Education Council, Council For Teacher Education Foundation (CTEF) and Council For Educational Administration And Management (CEAM) on 16-09-2020.
- “Technology Enabled Higher Education” in the 1st faculty induction program organised by UGC HRDC Dr BMM University Aurangabad on 16-09-2020.
- MOODLE Training in the 7-day FDP on MOODLE organised by MOOCS ICT CUTN from 21-09-2020 to 29-09-2020.

- “Technology Integration in Higher Education” in the One week online short run course on E-Content Development and Course Design organized by MHRD- Teaching Learning Centre, University of Calicut on 23-09-2020.
- “Course Design-Structuring the course” in the One week online short run course on E-Content Development and Course Design organized by MHRD- Teaching Learning Centre, University of Calicut on 24-09-2020.
- “Identifying and Selecting Course Components” in the One week online short run course on E-Content Development and Course Design organized by MHRD- Teaching Learning Centre, University of Calicut on 28-09-2020.
- “Integrating Technology in Education” in the Online Refresher Course on Curriculum Design, Development and Assessment organized by MHRD- Teaching Learning Centre, University of Calicut on 12-10-2020.
- “Authoring and Mapping Tools” in the Online Refresher Course on Curriculum Design, Development and Assessment organized by MHRD- Teaching Learning Centre, University of Calicut on 13-10-2020.
- Experiments and Learning Outcomes in Science and Secondary Level workshop organized by North East Regional Institute of Education from 14-10-2020 to 16-10-2020.
- “OER and Creative Commons” in the 167th Faculty Induction Program organized by HRDC, University of Kerala on 21-10-2020.
- “Technology integrated higher education” in the one week Online Faculty Development Programme (FDP) organized by the Kerala State Higher Education Council (KSHEC) in association with Educational Multimedia Research Centre (EMMRC), University of Calicut, 19-10-2020 to 23-10-2020.
- “Outcome based education-program outcomes attainment” in the AICTE sponsored online STTP (Short Term Training Program) on ‘Paradigm Shift in Assessment and Evaluation Practices for Engineering Graduates based on OBE Framework’ organized by Amal Jyothi Engineering College, Kerala on 24-10-2020.
- “Integrating Technology in Education & Authoring and Mapping Tools” in the Online Refresher Course on Curriculum Design, Development and Assessment organized by MHRD- Teaching Learning Centre, University of Calicut on 04-11-2020.

- “Technology Enabled Higher Education” in the Online Faculty Induction Programme-2 organized by UGC-HRDC, Kannur University 11, 12-11-2020.
- “Quality Enhanced Educational Research Course in Teacher Education through ICT” in the Online Refresher course in Teacher Educators: Learning Outcomes and Educational Reform-Pedagogy, Assessment and Quality Assurance organized by UGC-HRDC Kannur University on 20-11-2020.
- “NEP and OBE” in the 6 days online short term program (Phase I) Paradigm Shifts in Evaluation and Assessment practices for Engineering Graduates organized by Amal Jyothi Engineering College, Kerala on 21-11-2020.
- “Technology Enabled Higher Education” in the 3rd Faculty Induction Program organized by HRDC Dr BMM University Aurangabad on 15-12-2020.
- “OER and Creative Commons” in the 168th Faculty Induction Program organized by UGC-HRDC, University of Kerala.

Courses Developed and Training Conducted

- Developed and Conducted a four quadrant MOOC on LMS-MOODLE organized by FLAIR Kerala, Directorate of Collegiate Education from 18-04-2020 to 02-05-2020.
- Developed and Conducted a four quadrant MOOC on FIVE days Faculty Development Program on LMS-MOODLE organized by A P J Abdul Kalam Technological University Kerala from 22-05-2020 to 27-05-2020.
- Developed and Conducted a four quadrant MOOC on LMS-MOODLE organized by IQAC Cell, Sree Sankaracharya University of Sanskrit, Kalady, Kerala from 29-05-2020 to 11-06-2020.
- Developed and conducted a four quadrant course on "Online FDP on MOODLE Learning Management System" Online FDP on MOODLE Learning Management System organized by IQAC Cell Kannur University from 17-07-2020 to 26-07-2020.

Participation in Workshop/Seminar

- Participated in the Online Quiz which is conducted as the part of National Cyber Security Awareness organized by ISEA Project Phase II, Program by Ministry of Electronics information Technology (MeitY), Government of India on the topics Browser Security, E-mail Security, Cyber Stalking, Facebook Security, WhatsApp Security, Password Security, Cyber Ethics and Cyber Bullying.

Webinars Organized

- Webinar on “Mathematization” on 7th November 2020.
- Webinar on ICT integration in Physical Science- Challenges and Opportunities for Online Teaching Learning on 24th January 2021.

2019

- Workshop on Critical Understanding of ICT-e-content development at IASE Thrissur on 05th January 2019.
- Second Annual Convention of Tamil Nadu-Pondicherry Regional Council (RC-13) of Indian Association of Physics Teachers organized by IAPT and Central University of Tamil Nadu on 18-19 January 2019.
- Community Sensitization Program on Cybergogy:Excite, Engage and Enrich, organized by PMMMNMTC, Central University of Kerala at Avinashilingam Institute for Home Science and Higher Education for Women on 25th January 2019.
- One day national seminar on Preserving Wetlands: Balancing water needs of Human and Nature organized by NSS Training College, Ottapalam in collaboration with KSCSTE, Trivandrum on 8th February 2019.
- Two day National Seminar on Technology Enabled Learning (NSTEL 2019) organized by Gandhigram Rural University (PMMMNMTC), Gandhigram on 9th February 2019.
- National Workshop on Educational Technology organized by State Institute of Educational Technology (SIET), Trivandrum on 19-20 March 2019.
- Participated as an expert in a Three Day Module Preparation workshop on Online Course on Educational Technology Resource Management organized by State Institute of Educational Technology, Thiruvananthapuram, Kerala from 8th April to 10th April 2019.
- Course on E-content Development-PMMMNMTC-TLC University of Calicut to handle a session on e-content basics organized by University of Calicut on 24-05-2019.
- Development of e-content-design ICT integrated Activities (Session plan and Student Activities) organized by CIET-NCERT from 24-28 May 2019 at RIE, Mysuru.

- Resource Person in a training cum workshop on Designing ICT intervention for Teaching and Learning organized by CIET-NCERT, New Delhi at Regional Institute of Education, Bhubaneswar from 10th to 14th June 2019.
- Resource Person in a training cum workshop on Designing ICT intervention for Teaching and Learning organized by CIET-NCERT, New Delhi at Regional Institute of Education, Bhopal from 17th to 19th June 2019.
- Resource person in a Workshop to develop and review Course Materials for ICT in Education Course for Teachers and Students Phase-I organized by CIET-NCERT, New Delhi from 5th -9th August 2019.
- **Attended Refresher Course on Teacher Education conducted by HRDC, Kannur University scheduled from 22-10-2019 to 04-11-2019.**
- Resource person for the Technical Workshop on MOOC, MOODLE and OER conducted by the IQAC, Government College, Chittur, Palakkad, Kerala on 13th November 2019.
- Two Day National Conference on Innovative Teaching Strategies through Techno pedagogical Platforms organized by Krishna Menon Memorial Government Womens' College, Kannur on 14th November 2019.
- Resource person in a Short term Course on Research Methodology & statistics (Sponsored by the Directorate of Collegiate Education, Govt. of Kerala) organized by Institute of Advanced Study in Education, Thrissur, Kerala on 15th November 2019.
- Resource Person for 3rd Induction Training Programme under PMMMNMTT organized by Central University of Kerala on the topic Technology Enabled Higher Education on 19th October 2019.

2018

- Two day workshop on Techno pedagogy and Learning Management System at M.E.S Mampad College, Malappuram, Kerala on 27-28 July 2018.
- Two day workshop on Training Higher Secondary Teachers in Content and Methodology of Teaching Physics (Telangana) organized by Regional Institute of Education (NCERT), Mysuru on 17-18 September 2018.
- Induction Training Programme for Teachers working in Universities/Colleges/Institutes organized by PMMNMTT, School of Education, Central University of Kerala on 25th September 2018.

- A four Day training program under PAC titled Capacity Building program for KRPs of Ganitavijayam to improve Mathematics Learning in Primary Classes of Kerala organized by Regional Institute of Education (NCERT), Mysuru on 19th October 2018.
- Two day workshop on Techno pedagogy and Learning Management System organized by IQAC, St. Teresa's College on 28-29 September 2018.
- Training Higher Secondary Teachers in Content and Methodology of Teaching Physics (Telangana) organized by Regional Institute of Education (NCERT), Mysuru on 01-04 October 2018.
- Plagiarism & E-Resources- Users awareness Programme organized by Central Library, CUTN on 01st November 2018.
- Three day Workshop on Cybergogy for Engaged Learning at Government College of Teacher Education on 17th November 2018.
- Two day National Seminar on Catalytic Factors of Social Science Research organized by NSS Training College Pandalam, Kerala on 13-14 December 2018.

2017

- Resource person in Content Enrichment program for higher secondary school teachers of Kerala, Andhra Pradesh and Telangana in Physics at Regional Institute of Education, Mysuru from 03-01-2017 to 06-01-2017
- Resource person in FDP on Technology and Curriculum at Central University of Kerala on 07-01-2017
- Resource person in Development of Print and Online training manual for ICT integration in School Education using Web 2.0 Technologies and FOSS tools at Regional Institute of Education, Mysuru, from 09-01-2017 to 10-01-2017
- Resource Person in Development of Internship model for teacher educators at secondary level as envisaged by NCTE 2014 regulations for Southern region, workshop at Regional Institute of Education, Mysuru from 30-01-2017 to 02-02-2017
- Presented a paper titled Integrating PhET Tools in Constructivist Physics Teaching Learning in the National Conference on ICT in Education, at Regional Institute of Education, Mysuru from 02-02-2017 to 03-02-2017

- Inaugurated and Delivered Key note address on the topic Making Science Learning Easy through Technology on National Science Day at PRNSS College, Mattannur, Kannur, Kerala on 28-02-2017
- Resource person in Workshop for Development of ICT course content-Year 2 for Students" organized by CIET, New Delhi at Regional Institute of Education, Mysuru from 07-03-2017 to 09-03-2017
- Resource Person in Training Program on Internship model and pedagogic tools for Two Year B.Ed program based on NCTE regulations-2014 for Teachers Education (KRP's) of Southern Region at Regional Institute of Education, Mysuru, from 15-03-2017 to 16-03-2017
- Resource Person on Student Motivation Class in Connection with Scholar Support Programme, an initiative of Kerala Government at Nehru Arts & Science College, Kanhangad, Kerala on 17-03-2017
- Delivered an invited lecture on Personality Development and Confidence-building Measures as a resource person in the workshop on "Positive Discrimination" organised by the Equal Opportunity Cell of Central University of Tamil Nadu on 25-03-2017.
- **Completed UGC Orientation Programme, in the 98th Orientation Programme organized by UGC-HRD Bharathidasan University from 23-08-2017 to 19-09-2012.**

2016

- Attended Five day Training Programme on E-Learning and E-content Development for Master Trainers of Southern States through Blended Approach at Regional Institute of Education (NCERT), Mysore from 18th to 22nd January 2016.
- Attended a five day workshop on “Development of Print and Online Training Manual for ICT Integration in School Education using Web2.0 technologies and FOSS Tools” at Regional Institute of Education (NCERT), Mysore from 25th to 29th January 2016.
- Attended a five day training programme titled, “Improvement of Science and Mathematics at Upper Primary Stage’ at Regional Institute of Education (NCERT), Mysore as a resource person from 27th to 31st January 2016.
- Attended a six day training programme titled, “Training programme on the Quantitative Research methods by using SPSS software package for the Teacher

Educators of Kerala State” at Regional Institute of Education (NCERT), Mysore as a resource person from 4th to 9th February 2016.

- Attended a five-day training programme titled, “ Training Programme for Teaching of Mathematics using Geogebra for Higher Secondary Level Mathematics Teachers of Southern States” at Regional Institute of Education (NCERT), Mysore as a resource person from 8th to 12th February 2016.
- Attended a four-day workshop titled “Development of ICT Integrated TLM’s in Physics for Senior Secondary Level” at Regional Institute of Education (NCERT), Mysore as a resource person from 15th to 18th February 2016.
- Attended a five-day training programme titled, “Professional Development of Teacher Educators for the use of Pedagogical ICT in improving teaching and Learning of Science”, at the Regional Institute of Education (NCERT), Mysore as a resource person from 29th February to 4th March 2016.
- Attended a five-day workshop titled, “ Review and Finalization of draft syllabus of Four year integrated Bachelor of Science Education course, Bachelor of Arts Education course and MSc.B.Ed (Mathematics, Physics and Chemistry) of RIE in view of NCTE regulations 2014”, at Regional Institute of Education (NCERT), Mysore as a resource person from 12th to 16th March 2016.
- Attended a two-day workshop programme titled “Rashtriya Avishkar Abhiyan (RAA)”, at the Regional Institute of Education (NCERT), Mysore as a resource person from 17th to 18th March 2016.
- Attended a five-day Training programme titled, “Development of ICT based TLMs in the transaction of Mathematics at Secondary level of Southern States” at Regional Institute of Education (NCERT), Mysore as a resource person from 24th to 28th March 2016.
- Attended a five-day workshop on the compilation of Translation Equivalent (Malayalam) for Physics discipline organized by National Translation Mission at Central Institute of Indian Languages, Mysore from 23rd to 27th May 2016.

2005-2015

- Attended three day programme entitled Development of ICT integrated TLM’s in Physics for Senior Secondary level organized at Regional Institute of Education (NCERT), Mysore as a resource person from 3rd to 5th August 2015.

- Participated in a one day workshop on ‘OER integration in e-learning Materials on Research methodology in Education’ organized by Wawasan Open University, Penang, Malaysia under the ROER4D project at Regional Institute of Education (NCERT), Mysore on 8th August 2015.
- Participated in a Six days Training Programme entitled “Training programme on the quantitative Research methods by using SPSS software package for Teacher Educators of Telegana State” at Regional Institute of Education (NCERT), Mysore from 17th to 22nd August 2015.
- Participated in a five day programme entitled “ Web based Training Programme to the TGTs of APSWREIS and TSWREIS Schools pedagogical Issues for Quality Education to SC children” at Regional Institute of Education (NCERT), Mysore as resource person from 20th to 24th September 2015.
- Delivered a lecture in the three day National Workshop on Methodology of Biological Research organized by Post Graduate and Research department of Zoology, Government Victoria College, Palakkad, on 24th to 26th November 2015.
- Participated in a five say workshop titled, “Development of teacher’s handbook on constructivist approach of teaching Physics at Senior Secondary Level”, at Regional Institute of Education (NCERT), Mysore as a resource person from 7th to 11th December 2015.
- Participated in a five day workshop titled, “Development of print and online training Manual for ICT integration in School Education using Web 2.0 technologies and FOSS tools”, at Regional Institute of Education (NCERT), Mysore as a resource person from 14th to 17th December 2015.
- Presented a paper titled, ‘ A Review on Formative Assessment Strategies in Mathematics Teaching Learning of CBSE School’ in the “National Conference on Mathematics Teaching-Approaches and Challenges”, at Regional Institute of Education (NCERT), Mysore held on 21st to 22nd December 2015.
- Attended the workshop entitled “Item Analysis” as a resource person organized by first year M.Sc Nursing students, Holy Cross College of Nursing, Kottiyam, Kollam on 5th February 2014.
- Attended a four day workshop “Design and Development of pedagogical tools and materials for school attachment programme of Integrated pre-service teacher

education course” at Regional Institute of Education (NCERT), Mysore from 27th to 30th October 2014.

- Attended a four day workshop “Design and Development of pedagogical tools and materials for school attachment programme of Integrated pre-service teacher education course at Higher Secondary Level” at Regional Institute of Education (NCERT), Mysore from 15th to 18th December 2014.
- Participated in Technology Enhanced Instruction Workshop for Master Trainers conducted by Mr.Jonathan Cohen and Ms.Robin Angotti, a workshop for faculty by Microsoft on 16th November 2014.
- Attended Orientation Program on ICT in Education organized by UGC Equal Opportunity Centre as a resource person at NSS Training College, Ottapalam on 11th March 2013
- Attended 6 Credits Workshop (KNMC Approved NO.C 2814/NC-CNE Dtd On 15/06/2013) on “Innovative Strategies in Education” as a resource person organized by first year M.Sc Nursing students at St.Joseph’s College of Nursing, Anchal, Kollam on 16th July 2013.
- Presented a paper titled “Revamping higher education as a critical process to resist the new threats of Open Door Policy” in the National Seminar on ‘Quality Expansion and Inclusion in Indian Higher Education’ on 3rd February 2011 organized by Department of Education, University of Calicut.
- Attended a three day workshop titled “ Development of materials on Education for Sustainable Development at Upper Primary Level for Teacher”, organized by Regional Institute of Education (NCERT), Mysore as a Resource Person, from 4-7 January 2010.
- Presented a paper titled “Value Clarification – A tool for empowering youth to act for a sustainable existence” in the UGC (SAP) sponsored International Conference on “Education for Mitigation of Human Conflicts” from 18th to 19th February 2010 at Annamalai University.
- Participated in a Five Day Workshop on “Research Methodology for Research Scholars” organized at the Regional Institute of Education (NCERT), Mysore from 17th to 21st March 2010.

- Presented a paper titled “ Awareness and attitude of pre-service teachers towards gender equality in education” in the National Conference on Education for Socially Disadvantaged held at Pondicherry Central University during 12-13 March 2010.
- Successfully completed two credit workshop course on Curriculum studies and Critical Theory conducted by Prof.Michael W.Apple (University of Wisconsin, Madison) organized by Bharat Ratna Dr.B.R.Ambedkar University, Delhi in March 2010.
- Participated in a Five Day Workshop on “Research Methodology for Research Scholars” organized at the Regional Institute of Education (NCERT), Mysore from 16th to 20th February 2009.
- Attended in the National Level Workshop on “Techniques of Writing a Research Paper for a Journal” conducted by Amrita School of Education and All India Association for Educational Research at Amrita School of Education, Mysore on 10th and 11th April 2009.
- Participated in the National Workshop on “Research Methodology, Statistics and Application of SPSS”, held at Don Bosco Institute of Information and Communication Excellence, Tiruchirappalli from 30th July to 4th August 2009.
- Participated in an International Seminar on Constructivist Pedagogy in Teacher Education, held during 24-26 October 2008 at Regional Institute of Education (NCERT), Mysore in collaboration with The Commonwealth of Learning, Vancouver, CANADA.
- Presented a paper titled “ICT-A Tool to Empower Transformation in Teacher Education” in National Seminar on Enhancing Quality Education in the New Millennium, organized by Dept. of Educational Technology Bharathiyar University, Coimbatore on 27th and 28th February 2007.
- Presented a paper titled “Contemporary Discourses in Environmental Education and Sustainable Development” in National Seminar on Education for Sustainable Development, organized P.K.M College of Education, Madampam on 2nd and 3rd March 2007.
- Participated in the seminar in connection with Wild Life Week Celebrations 2007, organized by WWF-India Kerala State Office on 8th October 2007 at N.S.S. Training College, Ottapalam.

- Presented a paper titled “A General Overview of What, Why and How of LD” in a National Seminar Learning Disabilities, the Concept, and Key Issues organized by Kannur University Dept. of Teacher Education, Kasargod and Rotary Club (RI Dist 3200) Kasargod on 5th November 2007 .
- Presented a paper titled “ ICT in Science Teaching and Learning- A Constructivist Approach” in the UGC sponsored National Seminar on ICT Based Content Development and Teacher Education” held at N.S.S Training College, Ottapalam on 23rd, 24th and 25th March 2006.
- Presented a paper titled “Towards the threshold of Consciousness for the Total Quality Management in Teacher Education” in the Fifth State Convention and National Seminar on Total Quality Management in Teacher Education, held at N.S.S Training College, Ottapalam on 13th and 14th October 2006.
- Attended a Two day Workshop on “Theme Centered Interaction” conducted by N.S.S.Training College, Ottapalam
- Attended the SOUL Software Training Programme given by INFLIBNET Centre (IUC-UGC) Ahemmadabad.
- Attended a three day university level seminar, “Strengthening Teacher Education- University Level Seminar on Curriculum Transaction Based on the revised B.Ed Curriculum” held at NS.S Training College, Ottapalam on 28th, 29th and 30th July 2005.